

ANTHROPOLOGY

0027

LIBRARY

1969

②

1. M. L. EOD

B. M. R.

INDEX

Page	Subject
2-5	Polar Times to central + west Polar Forschung.
✓ 6-13	East of Polar Forschung - Epp's record
14-18	Bolingen's + group to S.W.
✓ 19-26	Aanoon Is age det.
✓ 27-40	Landing Bluff age det.
41	Amundsen line.

2	Starthausen Ntk
3	Bond Ntk
3	Vestknaatten Ntk and nearby
6	Meknattane Ntk & area
9.	Dodd Isl.
11.	Stein Isl.
4	Sostrene Is
16	Bolingen Is

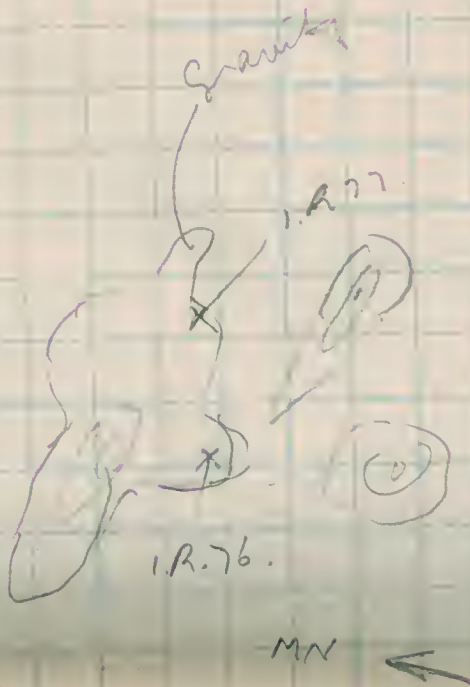
Mar 630/1A 76.

Mar 630/1A 76.

76

✓ I.R. 76, 69280177
69°51'S, 74°28'E

✓ I.R. 77 6928
do



27/1/69. Southern Pydz Bay to sea

?/ Bayd

4. Svarthausen Ntk

UHF Altimeter 150 at 1000. at camp.

photo 83/318/9108

638. Nunatak 220. Rock saddle
north of line bet. two main
peaks. Pyrox-ol-ite on a good
whiskery banding of mafics. Spec
of typical rock (Spec 76). Str
N 360, 85° W. A few bands of
dark min. abt 1 cm wide
Rock fairly fresh & ice
smoothed. Rock lithology uniform.

Further north, pyrox is less
common, ol more abundant, and
minor red garnet. Banding
is more biticolar (Spec 77)
A few lenses of blue-grey ol
a few cm wide, one
abt 1 m. wide, and some
discontinuous veins abt 2 cm wide.

Str at head is N 360, V. No
limestone visible.

alt 520' at 1110. Str 10ft
higher. Peaks alt 250ft higher
by altimeter. Station on tongue
of rock projecting north from mass

639. Peak 90. Not able to
land. Well banded Bayd

same
photo
20638

gneisses, str alt same ^{NHt}
2. base, top vert. Rocks
look like those on CM

and extends to 118 v, dk
bands. Alternating c. light,
bands up to 1 m. wide
appear. Much rounded
lt. colored massive

= westknatten
NHt

Photo 83/318/8119

Helicopter Hills

640. n Peak 140 in Polar Foraching
Glacier.

Rock is psph list gran,

W

some pinkish grey like
collins etc, but most
stained dark brown by iron
P then generally form 70-80%
and are usual blocky type
av. abt 5 cm long. Exposure
slabby, but brown rock
tends to be ~~slab~~ broken
along surface, and pieces of
ma some of these frags at
downstream end of low
outcrop.

Each type seems to
grade into brown type, which
at first glance has a
chaotinitic look. But
content of each abt 15%.

Moraine is mostly granite
types, mg + cg and purple
+ eg, some mg but of
feld gr.

Bands of felsic rock in
main mass, up to $\frac{1}{2}$ m

✓ I.R. 78 69280107
69°51'S 74°58'E

✓ I.R. 79 69280108
do

✓ I.R. 80 6928
do

Photos 196/31, 32, 33, 34

M 862/2

Corals on summit,
wide, no general trend.
Specs of lt colored gran
(spec 78) and dark (spec 79)
and of rather conglom. eq.
type of dark (spec 80)

^{M862/2}
^{13th} Photo of side "column" of
dkt lt (congl) rock, (color) 196/31, 32
A vein 5 cm wide, sharp
edge uniform width, straight
of mg host granite. 196/34

Thickness 1/2 meter approx,
rounded, c-mg host gran,
some conc of host at edge
grades into lt porph type
over 1-2 cm. Photo color
196/33
? Photo of water fall (on Pt 160)

Photo 83/310/9119 S.W. Vest knappen
64 ft. NO crop is on W side of
glacier (con photo) in
some massive zone

c. fine dykes. Not banded
Rock is unsorted. Mostly
light coloured - some
dark patches, esp on
downstream faces.

MEKNATTANE NUNATAK

Meknattane Nuk = waterfall
Nuk

642. Point 160, east side of
Polar Gneissing fl.

photo 83/318/8124

Main mass seems to be
pinkish light gran, but finer
rather smaller and not
so common.

South end of mass looks
like contact zone with gneiss
feld gneiss irregularly banded
very variable proportions of
light (some bands nearly white)
bands generally narrow, but
bands also c. of feld bands

✓ 1. R 81 6928
69°52'S 75°10'E

✓ 1. R 82 6928
do

✓ 1. R 83 A, B 6928
do

✓ 1. R 84 6928
do

Altitude very variable but
alt 1100 seems common.
Also of greenish, up to 2
m wide, little but, trending
alt same dir but discolored
mostly. Pts of greenish
can be seen. Different
stratologies, grade one to
another. — marginal — "marginal
rock".

Some granitic pyroxene
feld. rock also, but
seems minor to h of green.
Specs of spec of plagioclase
(spec 21), h of green
(spec 22) and pyroxene feld
green (spec 23) — A+B

Some plagioclase
little but, cont clusters
up to 1 cm across of pinkish
garnet, assoc with, forming
up to 15% of rock. (Spec
1. R 24)

✓ 1. R 85 A P

do

6928

6928

6928 0178

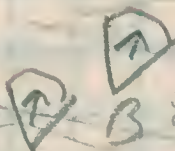
(C)

↓ 1 meter to contact

C 9 ^{met} 30m

few phen

baf



30m

7 cm

✓ 1. R 26. 6928 0179

69°52'S 75°10'E.

near contact, gneiss has
regular banding, banding of
lt in dm or more, some
up to 10 cm wide, N20, 40
°E, quite uniform, unlike
further away where
contorting common.

Chilled edge on N side of
saddle, N360, 20°E see sketch.
Just above river.

Specs across contact
(Spec 25 A, B, C.)

Spec of granite from gravity
point (spec 26) seems
typical. A few boulders
seen nearby.

alt 435 ft at 1345.

A few felsic veins in
main peak.

657857

Photo 196136.

196/36

Photo of S end + of main
mass (aerial)

Ht of peak abt 650 by altim.
moraine mostly like last but
some big blocks of c.g. with
? chain, & big field.

643. Pt 170 is plate of uniform
brownish rock, prob. granite.
No landing. ^{East} ~~South~~ of
Photo 93/3C/9149 Meknathang

photo 93/3C/9161. Dodd Is
644. Point A1, east of Point Record
Rudom. zone of fed grass
& herb in parts, as at
Peak. Some GF grass &
no herb grass, some
fed grass. Good banding
given by herb in GF zone
and by banding of PF zone.
Latter consists of 1-m. and 6

✓ 1. R 87 69280180

69° 44' S 75° 34' E

✓ 1. R 88 69280181

do

and themselves, banded.
Generally very like island
No of Mt. C. Mikkelsen.

Good location NW 40,
pitching SE at alt 250.
Folding visible on this
axis, dips generally SW at
20-30°, some near vert.
some bands & plications

NW 40. ←

on
flat
surface.

- Slabby outcrops are smoothed
and crushed.

Specs of bit 99 & 100
(spec 87) and pyrite grains
(spec 88).

A few c/pag veins, predominantly
+ Fe - a bit.

Parts of green, red, etc.
iron stains.

In one spot is banded
but G.D.F. ^{dark} slightly
folded, ^{dark} ~~dark~~ ^{dark} cut
across by felsic material
which seems identical to
felsic material bet. hot band
photo. ^{color} A c. 2 per cent
abt 3 cm wide nearly.

Photo of good banding on
slab from north

Altitude 305 ft at 14 x 5.
Gravity on flat part of northern
slab.

NUUNATAK 131

6x5. Traverse on Stein ls

Photo 93/30/9167

Position hot G.D.F. on c
Anger of fold up to 5 cm
mostly rounded. Parts look

✓ 1.A 89 69280182
69° 42'S 75° 41'E

typical Augen green. spec
(spec 29) fairly typical, but
fewer Augen than average,
which is abt 20%.

~~Location N150~~

folm N150, 20°SW.

Coarser pegmatite, crystalline
in parts, cont. fed like Augen,
qtz + bit. plates

Some veins of red aphte
normal to strike, 5 cm
wide, straight, uniform.

Augen not common in parts
and rock then looks like
typical biot gneiss.

A few bit. rich bands
and some bands of pyrox. fed
green. Pyrox. possibly repl. by
biot.

In gap, possibly a thin
pyrox. zone - id, and some

✓ 1. R 90 69280183
69° 42' S 75° 41' E

✓ 1. R 91, 6928
do

✓ 1. R 92 6928
do

to consist of several field
grains - rather than the
c typical angular lenticular
shape,

On a few other places
auger are pink - rather than
grey, mostly in high rich
points. (Spec 92)

Spec (Spec 90) of pyrox-
feld band adjoining GOF
and of rather weathered
biot band (Spec 91)

Some shearing, then
mylonite seems in one
spot

✓ 1. R 93 69280184
69° 35' S 75° 24' E

1. R 94 69280125

69° 35'S 75° 24'E

lineation patching $\frac{5}{4}$ at
700' prob represents
fold axis ~~same~~
str N350V

Rock in valley shattered into flags.

Spec of typical ~~unit~~ ~~spec~~
with band (Spec 94)

QQT pruden type, mostly
c minor list, and mostly
lightly permeated by lime de
eq. spec 93. Some white
or grey bands.

Much of outcrop shattered
into flags, possibly due to
shearing.

A eq. dyke cuts
normal to str. through
QQT + BPF zones.

Some mylonite seams along
str of QQT cut acutely
across str planes.

69280186

✓ M.R. 95 A, B

69°32'S

75°38'E

Possibly a small fault
normal to trend - boundary
slightly curved.

NW. Peak of island very dark - almost
black.

Other islands of group seen in the
island from air.

647 Island 90 in south Polynesian
photo
9113B
9084.
Biot of typical green, very
young, good whorly banding
of light, some light rich
bands up to 10 cm; gran-
ular or shaly, except
along some bands
which look like rock
at loc. 646.

Specs of typical gneiss (Spec 95
A & B). Spec A is typical of
comp, but some is coarse
than average. Spec B has
typical texture but more light
than average. Much of it shows
gneiss has a "sandy" look. 6

✓ 1A 96 69280187
69°32'S 75°38'E

Photo m862/4

Concordant & greenish an
blue, of ~~very~~ heliocrystalline
qtz field. ~~and~~ are light
Some are pre-don grey-
white qtz & red field up to
10 cm across here & there.
Others are pre-don red
mg bed, & very ~~of~~ ~~some~~
bedding parallel to strike.
Spec (Spec 1096) typical
of latter except that
qtz veins can be up
to 10 cm across. Joint
& grain is quite sharp.
Bands are $\frac{1}{2}$ - 2 m wide,
constant in width. A
fraction of veins 5-10 cm.

Str is constant N 350, 70W.
Quite good in places.
Contd p12.

Photomicro photo of vein

M8824

?

17

✓ 1. 12. 97 69280188
69°32'S, 75°38'E

Photos 192/1, 2, 3

1971/12

Close up of same view
(2 col) + 1 of adjoining

1971/3 Grass (1 col)

Specs photos from gas cutting account.

Alt. 2300 at 1645. Gravity
reading in valley, 5 ft higher
than helicopter.

Alt at camp 2400 at 1712

617 cont. A few bands,
brilliant, super-thick,
seen to cont previous
massive ash in first
(Spec 97) from south side
of valley in which landed.

6Q280130

1. R 98

A

B

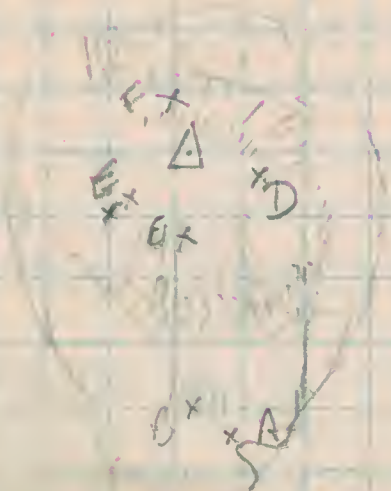
C

D

E

F

69°42'S, 73°46'E



Aerial photo
M862/Q, 10, 11,
12, 13.



7/269

Samson Is age det. spec.
Photo ant 83/318/9086

642. Specs for age det. all
coll. by explosive except
as indicated.

A. Biot. 2 plite. coll. by hammer.
Creamy, little biot.

Dyke prob. slt. 1 metre wide
Contact to porph gran not
visible. Good cross jointing
and vert. it suggest dip very
steep west. Str N 360.
Appears uniform in texture
and comp.

A few straight veins, 1-2
cm wide, of qtz + feld., which
seem to cut across dyke.

Spec. from top of deep
gully into sea.

20' from where spec

L.R. 98B 6928.0131

collected, contact is dark
hot rock of spec B. Contact
sharp, 2 margins 2 cm wide
of grains normal to contact
and coarser than rest of
dyke. Contact appears to
dip west at 15° . Str here
about N 40° . May have
been some movement of
rock, but not much, as
~~blocks~~ ^{blocks} more than 1 metre
across seen in place.

50' further along dyke,
dyke cont sharp edged
unolites abt 15 cm long
and 5 cm across of rock
like B.

B. c-mg. hot rich druse,
equigranular, massive.

1.R 98c 69280132

Spec coll 20' from A. near
contact down above, but
at least 3 metres from
aplite dyke (above it).

Occ. as pile of blocks &
boulders, reln to each
other not known, but prob
a xenolith. ~~Pls~~ Pls
Pls 3 m across and 10
metres long, lenticular
trending abt N 360. Spec
from broken part of a crop
~~not known, prob~~

Tendency for westward
of line (i.e. part near
spec A) to be ^{slightly} more
inclined to be ¹ ~~slightly~~
coarser than spec.

C. 10' from summit camp,
which faces N 230° is
(spec from here)

cg. light gran & f. phen
and more light than in
typical spec. 9200 yds
to typical granite not known.
but forms widely spread
j. & slabs of massive rock
and blocks > 1/2 metric ton.
Mass is abt 6 m long and
4 across, and apparently be-
bounded by typical granite
which is however, almost
completely decomposed. One
small length of possible
contact, abt 10 m long,
both types weathered, but
contact appears sharp.
Mass, which is fresh &
unaltered, seems uniform
and massive except
for scattered feld. phen.,
as in spec.

Thin along abt N120°.

1 R 98D 6928 0133

1 R 98E 6928 0134

D. 15' from summit cave
which bears N180, is
another ~~one~~ generally
sim to one of spec C.
But alt 2 m across and
4 m long. Along N180.
Slab abt 3 cm thick of
typical gran. Along one
side, contact sh. p.
Gran sp from very
weathered joint filled with
sand on other side.

E. 15' from cave, bearing bit
N295 is prob. Unalut
of gabbro, alt 2 m across,
cont minor host. Some sanding
rocks doubtful, but on

1R98F 69280135

rough + west (mag) - not seen
to be but see some
Apl. seems massive + uniform
+ scattered but in some
places but is more common
and is in whistling shales,
seen in situ not known

F. 10' from center, which bears
N 86, typical granite,
fairly fresh weather
properties in above
gravel. Low dip of dip
= 3-4 towards S.W.,
and boulders between
nearest exposed layers
not to N (mag). Pkt of
un-stained rock 5m.

1R 98G 6928 0136

away, elongate, which if
projected would pass
12 m from barrel block
down-stained - red could
represent a shear, but
I note in it does not
seem shear in hand
spec. Beds are broken up.

G. 60' from canyon which
shows N 200. Typical
beds, part of bed is broken
which are common around
nearest similar to 5' away,
beds small.

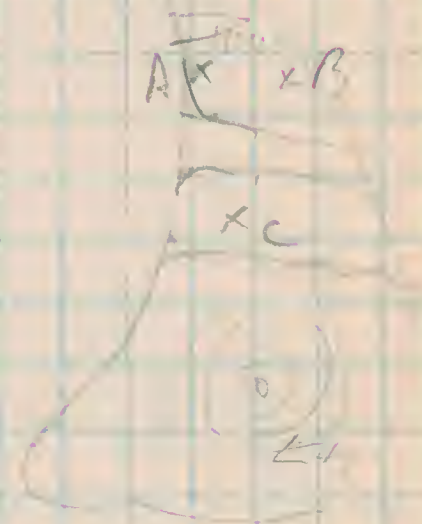
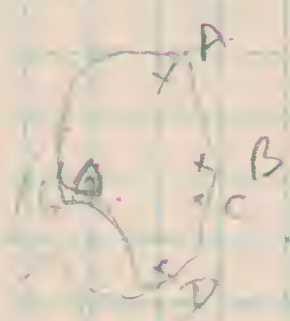
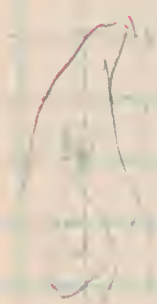
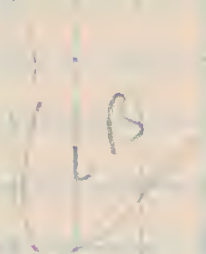
1R 98H ~~SB~~ 6928 0137

part 2 of 3

H. 60 x 60 can with
beams^{N105}, at top of last dip
down to low saddle. Top of
purple gran. on this flat
will yd N360, y its 4 to
2 metres apart. No rest
then 4 m. away, small
patch of dirt with rock
20 cm across.

Cross for normal str to
master its, dip west.

IR 99 A 69280138



15/2/69

Landings Bluff age det.

Bedrock of summit of outcrop.
649. Spec coll by 2 specimens
in this otherwise shown

Spec no spec 99 A-E

A. Phenocryst poor but granite,
c more but for typical but
gran. Phen up to 10 cm long
& 5 cm wide, but most about
4 cm long and 1 - 1 1/2 cm wide.
Many cont. incl. of but flakes,
small. Spec is typical of rock
for at det. 10 m to east, 5 m
to west. Further west for 30 m
phen are pinkish, c rather
plac. cont. mostly large phen,
but still same proportion of field
in phen.

2 m to west is band 10
cm wide of broken rock
either a shear or more

Photo M 86-215.

likely a series of close joints
which have allowed
weathering. (Spec 99 A1).

Dyke N 115 75° E.
Some rock faces seem to
show alignment of foliation
phen., one face trending
E-W (true approx.) has
very slight alignment, but no
parallelism of phen on
horizontal surface on top of
that face.

Bringing to summit N 300.
Loc 10 m from edge of rock
20 m towards summit, looking
for phen on rising surface to
trend N 115 and dip 20° W.
Good alignment in a couple
of places over 4-5 sq m.

M862/115 Photo of site

1R99B ~~or~~ 69280139

B. Bearing to summit N 325
251 10 m from edge of
rock. Rock is similar to
that of A, but pher possibly
a little more common.
Seen rock for 10 m
around.

On boulder blasted,
then an east(?) face
slightly altered, dip south(?)
at 70°.

10 m towards summit is
view of white peg up to 50 m
high! rock on each side
inner, greenish and best
rich for 5-10 cm from peg.
Peg is predominantly like
pher in a small, 20 cm
but flake is very minor
etc.

Only 3 m long, line trending
N10 and dipping W at 60°
60.

1R99C 69280140

Photos M 862/1617.
1973.

c. Typical granite pinkish
phen.

doe 20 m from edge of
rock, down to summit N360.

In places are patches
of rather common rock
mostly only slit 10 cm wide
and 1 metre or less long.

5 m to south (7) rock cont
ing patches of white.
up to 10 cm across.

7 m to north (1) is dyke
of cong. rock, up to 2 m wide
at best 10 m long, possibly
a xenol. Cont. scattered bit
phen (or porphyroblasts). Dyke
slit ^{11/20} and has whisp. film
of bit in the dm. dip
45° W. (Spec 99C1)

Photos

B+W + colour

MP6216, 17

198/3

30

1R99D 69280141

Photo 1882119.
19814

D. Bearings summit N 30.
Loc at exit (T) side of S-type
dyke or road. Abt 2 m wide
can be traced 6 m down S
summit from loc and onto
edge of arons. Trend NW.

On N (T) side, grades
into typical granite ~~area~~
~~distance of 15 m~~ through
band 15 m wide with
s.s. texture to ground mass
of granite but no big phen,
fractures on either side
facing well defined, but not
sharp (photo).

M862/19
198/4

Both is fairly uniform
except for slightly coarser
patches and one or two
big big phen.

(E) On south (S) side of
(Type road) and sep.

1 R 99E 69280142

Photo M 862/18

Found by a ft 30 cm
of what seems to be a small
porph gran is mass of
biot rock, & altered
H.H. Possibly formed
along a shear. Masses
at least 40 cm wide in
one place. Part of exposure
broken, but seems to
be cut, being at 2
m. long at least. Biot
rock is sharply sep. from
gran but it is xenol. And
also from typical granite
to south. A thin (1 cm)
felsic vein cuts both
granite to E and biot
rock. (Photo).

M 862118

1R99F 69280143

Photos M86215-19

198/3,4.

- M86215
Photomicrographs (brown)
 M86216 contact but dyke & gran
 near C (brown), gran
 M86217 typical of C (brown & col)
 19813
 M86218 light rock at E (brown) and
 M86219 dyke of D (brown & col).
 19814 showing no real zone

Parts of granite have
 red bed + chlorite looking
 but. These but are otherwise
 texturally & mineralogically similar
 to normal rock. These
 patches are several meters
 in extent, and seem to
 grade into normal rock
 over distance of some couple
 of meters. Spec (spec
 995) of such rock, not
 most altered variety. (from near C)

Bands of light rock are
 in several places, some

Photos m862/20-21

near (daytime or sun) time
that of 99 D. That less
than 10 cm wide, long
(at least 20 m for one)
fairly straight. In
other places are irregular
patches of sun rock
forming irregular network,
each track only 5-10 cm
wide.

Aerial photos of sites

MP62/20-27

1R100A 69280144

650. Landing Bluff aged
Spec nos 1R100 A
A. Early typical purple blot
gran, white fed phen.
Run rock for 10m.
around

Probable shear 5 m to
south (T), trending out NW
marked by 4 bit streaks
and some are also very
mylon. veinlets. Run
out 20 cm wide, dipping
out NW E.

White of fed phen. vein
Access. my blot, 10 m to
SW (T). 15 cm thick, trend
N 40, V and parallel
shear, 10 cm thick, another
5 m away

20 m to east (T) is band of
blot rock, N 220, 20 cm wide

1R100B 692801X5

Proposed is westward pass
abt 7 m south of loc.
near shear noted above.

B. Very typical purple biot
gran, pinkish phen,
massive. Seen for 20 m
at least each way along
cliff, and weathered boulders
on feet also seen typical.
Loc is 3 m above base
of cliff, 15 m west (T) of
steep slope to east (T2)
direction, mg, but rich
fine feld phen sharp against
granite, abt $\frac{1}{2}$ m across

1R100C 69280146

edge abt 1 m west (T) of
loc.

C. Blackite dyke, outcrop
not good but seems
rather sinuous, general
trend N30, dip vert.
Abt 1 m widest sampling
site, which is 30 m from
on SE (T) side of slope
down to melt stream.
And near loc, border of
dyke changes from N30
to N60.

Rock seems uniform in
comp except for slight
changes in grain size and

in bed, contact. -
margin marked by
rock, mostly flint, up to
3 cm across, abt 5 cm
wide, grad into typical
gran by addn of brot,
into over 1 cm or so,
into obsidite by change
of grain size over 2-3
cm.

vein of massive white
qtz 3 cm wide along
center of dyke at loc.

Dyke seems to be some
thinner 10 m to east,
abt 1/2 m, but crop poor.

Q bed with rock sec 2 m
to 3 (T), some phos,
but generally like run
on sandstone. seems
abt 1/2 m wide

Extensive sheet of
mgt. - which is m to 5 m
of lve., band possibly at
N 200' zone 2-3 m wide
rock being close to
dyke - but to tell - it is
dyke sampled. Dyke
does not crop out in
zone, though couple of
blackish boulders occ.
on ~~eastern~~ side south of
side of zone, but these
prob came from a crop
boulders against zone.

Dyke mostly crops out
as line of boulders &
quite gravel on each
side. Contact is good in
only couple of places.

I wish to mention
Lake drops down to
sheet lake, it separates,
one branch abt 50 mi,
other 20, abt 1 m apart
mineralogy seen.

Photos of valley from air
M 862/22, 23

Notes on rocks coll by
J. Bain from Amanda
cog (Mak 110) by J.
Sanson.

JB 82 by far the most
common.

JB 83 second most
common, esp on
southerly island

JB 84 occ. as veins
on north part of southern
island, but not common
(abt 10-15%).

